

Research Report for 1998 Submitted to the  
New York Snap Bean Research Association

**Breeding Snap Beans for Multiple Disease Resistance  
and Temperature Stress Tolerance**

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From the 1997 white mold field screen, we identified 76 F4 breeding lines that had high ratings (low disease) in at least two of the reps. During 1998, we planted least 20 plants/family and screened for heat tolerance in the greenhouse. From these screens we selected 52 F5 plants that were harvested and replanted for increase. These F6 selections are available to the industry as a source of WM + HT germplasm. In 1998, we also began to prepare a new strategy for field screening for WM tolerance because the procedures we followed in 1997 are really not feasible for our program. We planted 1/2 acre of sunflowers in the WM plot at Geneva and inoculated with spores, followed by timed irrigation to enhance infection. Sunflowers are a superb host for Sclerotinia, so we hope that we will be able to increase disease pressure in the field for 1999 screens without having to collect spores and inoculate intensively through the flowering period.

For a printed copy of the entire report, please contact the NYS IPM office at:

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